United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N 2 5	3 WAU000377 11	12 10 03 29 17	18 E	19 R	20 3

Remarks

21 ... 66

Inspection Work Days	Facility Self-Monitoring Evaluation Rating	BI	QA	Reserved
67 50 69	70	71	72	73 74 75 ... 80

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*

Dan Noteboom Dairy
7800 Noon Road
Lynden, WA 98264

Entry Time/Date	Permit Effective Date
1:45 PM 03/29/10	—
Exit Time/Date	**Permit Expiration Date**
5:00 PM 03/29/10	—

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)

Dan Noteboom, Owner and Operator
[redacted] (b) (6) [redacted]

Other Facility Data *(e.g., SIC NAICS, and other descriptive information)*

SIC = 0241

Unpermitted

Name, Address of Responsible Official/Title/Phone and Fax Number

Same as above.

Contacted ☑ Yes ☐ No

Section C: Areas Evaluated During Inspection *(Check only those areas evaluated)*

☐ Permit	☑ Self-Monitoring Program	☐ Pretreatment	☐ MS4
☑ Records/Reports	☐ Compliance Schedules	☐ Pollution Prevention	
☑ Facility Site Review	☐ Laboratory	☐ Storm Water	
☑ Effluent/Receiving Waters	☑ Operations & Maintenance	☐ Combined Sewer Overflow	
☐ Flow Measurement	☐ Sludge Handling/Disposal	☐ Sanitary Sewer Overflow	

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OFFICE OF COMPLIANCE AND ENFORCEMENT

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes | SEV Description

See the attached report.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
Joseph S. Roberts Jr.	EPA/OCE/206-553-1669	04/12/10
Dustan Bott	EPA/OCE/206-553-5502	
Signature of Management Q A Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Timothy A. Dole	EPA/OCE 5-0955	4/16/10

EPA Form 3560-3 (Rev 1-86) Previous editions are obsolete.

PCS WAU000377

PCS. 4-12-2010 MBrown

NPDES
Inspection Report

Dan Noteboom Dairy
Lynden, Washington

March 29, 2010

Prepared by:
Joe Roberto, Environmental Engineer
Environmental Protection Agency, Region 10
Office of Compliance and Enforcement
Inspection and Enforcement Management Unit

Table of Contents

(Unless otherwise noted, all details in this inspection report were obtained from conversations with Dan or Terri Noteboom or from observations during the inspection.

This inspection report includes two aerial photographs (attachments A and B) and a photograph documentation attachment (attachment C). Note that the aerial photographs also identify the photograph number, direction and location of the photographs included in the photograph documentation attachment.)

I. Facility Information

Facility Name:	Dan Noteboom Dairy
Facility Type:	Dairy (SIC 0241)
Facility/Mailing Address:	7800 Noon Road Lynden, Washington 98264 Whatcom County
Facility Phone #s:	(b) (6) (office) (b) (6) (cell)
Facility Contact(s):	Dan and Terri Noteboom (Owner and Operator)

II. Inspection Information

Inspection Date:	March 29, 2010
Arrival Time:	1:45 PM
Departure Time:	5:00 PM
Weather:	Overcast
Purpose:	Determination of compliance with the Clean Water Act

III. Permit Information

This facility is not currently covered by an NPDES permit.

IV. Background and Activity

According to Dan Noteboom, he has operated this dairy since approximately 1982.

This dairy consists of two separate locations; the main facility which located at 7800 Noon Road and another location at 8171 Hannegan Road. The main facility is the portion of the dairy where milking cows and calves are confined, fed and maintained. It is the portion of the dairy where cows are milked. This portion of the dairy also includes adjacent pastures, a silage bunker, two below ground manure pits, and a waste storage lagoon for long term storage of waste.

The portion of the dairy located on Hannegan Road is an area where a few head of heifers are confined, fed and maintained. This is also the location of a below ground manure pit and a waste storage lagoon.

The waste generated at this facility is mainly manure and urine deposited in the barn areas. This facility is designed such that the wastes generated are collected, stored and then ultimately land applied on approximately 600 acres of adjacent pastures.

The inspection of this dairy is part of EPA Region 10's concentrated animal feeding operation initiative.

See attachments A, B and C for details on the facility components.

V. Individuals Present

The inspectors present throughout this inspection included Joe Roberto (EPA), Dustan Bott (EPA), and Kurt Niemeyer (Washington State Department of Agriculture).

The facility representatives present during the inspection were Dan and Terri Noteboom. Terri Noteboom was present only for the opening conference. Dan Noteboom joined the inspection soon after the opening conference and accompanied the inspection team throughout the remainder of the inspection.

VI. Inspection Entry

This was an unannounced inspection. Upon arriving at the facility, Dustan Bott and I presented our credentials and explained the purpose of the visit to Terri Noteboom.

Mr. and Mrs. Noteboom did not deny us access to the facility. We were allowed to inspect all areas that we wished to inspect.

VII. Inspection Chronology

Upon arriving at the facility we began the inspection with an opening conference where we discussed the purpose and expectations of the inspection. Following the opening conference, I interviewed the facility representatives regarding the operation of the dairy.

We then conducted a facility tour where we inspected the confinement areas, waste storage facilities, land application areas and receiving waters.

We concluded the inspection with a closing conference where I discussed the areas of concern I identified during the inspection.

VIII. Owner and Operator Information

According to Dan Noteboom, he owns and operates the dairy.

IX. Number of Animals

According to Mrs. Noteboom, this facility houses a total of approximately 590 animals including 330 milking cows, 50 dry cows, 170 heifers, and 40 calves.

X. Presence of Vegetation in the Confinement Areas

The confinement areas at this facility consist of barns with concrete floors. I did not see any vegetation in any of the confinement areas.

XI. Length of Animal Confinement

According to Mr. Noteboom, approximately one third of the animals at his facility are confined throughout the year. The remainder of the animals has access to pastures during portions of the year.

XII. Waste Management Process

Waste generated at this facility is mainly from the barns where the animals are confined. The operation of the main facility is such that the wastes generated in

the barn complex are scraped to one of two below ground manure pits. The wastes in the pits are then pumped to the waste storage lagoon for long term storage until it can be land applied.

Waste management at the Hannegan Road location consists of a below ground manure pit and a waste storage lagoon for long term storage. The waste from the confinement area at this location is scraped into a below ground manure pit. The contents of this pit are then pumped into the waste storage lagoon.

According to Mr. Noteboom, the waste storage lagoon at the main facility is connected to the waste storage lagoon at the Hannegan Road location. He said that if needed he can haul waste from the main facility lagoon and store it in the lagoon at the Hannegan Road location.

See attachments A, B and C for details regarding the waste management process at this facility.

XIII. Observed Discharge

I did not see any wastewater, from this facility, enter nearby surface waters at the time of this inspection.

XIV. Areas of Concern

We inspected the facility including the confinement areas and the waste handling systems. I saw several areas of concern at the time of the inspection. These areas of concern are described as follows:

A. Solids Accumulation in the Waste Storage Lagoons At the time of the inspection, I saw solids floating on the surface of the waste storage lagoon at the main facility. In addition to the solids, I saw vegetation growing on the surface of these floating solids. See photograph #s 1 to 4 of attachment C for details of these accumulated solids in the main facility lagoon.

The accumulated solids and vegetation on the main facility lagoon were thick enough such that it could support the weight of a large dog. At the time of the inspection, the dog owned by Mr. Noteboom walked onto the surface of the lagoon at the main facility.

I also saw solids floating on the surface of the lagoon at the Hannegan Road location. Similar to the lagoon at the main facility, this lagoon also had vegetation growing on the floating solids mat. See photograph #s 7 to

9 of attachment C for details of the accumulated solids and vegetation in the lagoon at the Hannegan Road location.

I asked Mr. Noteboom if he had ever cleaned the solids out of the lagoons. He responded by saying that he does not have the equipment to get all the solids out of the lagoons. He said that he does have an agitator and that this agitator can get at the solids in the four corners of the lagoons, however, it cannot get to all the solids.

I then asked Mr. Noteboom how much storage his lagoon system provided during the winter. He indicated that he could operate without emptying his waste storage systems for approximately four months (from November thru February). However, the nutrient management plan for this facility suggests that based on the size of the waste containment system at the main facility, this facility could operate without land applying wastewater for more than five months. In addition, the nutrient management plan suggests that with the additional storage provided by the lagoon at the Hannegan Road location, this facility could operate without land applying wastewater for approximately one year.

The nutrient management plan suggests that this facility is designed to be operated with a certain amount of waste storage capacity in the waste containment system. The concern, however, is that by not cleaning out the solids from the lagoons on a regular basis the available storage capacity in these lagoons has decreased and will continue to decrease. In subsequent years, this can result in land application to nearby fields during times that are less desirable for land application.

I identified this as an area of concern to Mr. Noteboom at the time of the closing conference of the inspection.

B. Freeboard in the Lagoon at the Main Facility The nutrient management plan for this facility specifies at least one foot of freeboard in the lagoons.

At the time of the inspection of the lagoon at the main facility I saw that the level in the lagoon was approximately six inches or less from the top of the lagoon wall along portions of the lagoon. See photograph #s 3 and 4 of attachment C for details.

I identified this as an area of concern to Mr. Noteboom at the time of the closing conference of the inspection.

C. Potential Silage Leachate Discharge At the time of the inspection I inspected the silage bunker at the main facility. I saw that water was accumulated just south and southwest of the silage bunker. This

accumulated water likely contained precipitation as well as silage leachate. I also saw that the water accumulated in this area was in close proximity (within a few feet) to the roadside ditch along Noon Road. See photograph #s 5 and 6 of attachment C for details.

According to Mr. Noteboom, he has installed a pump to route this accumulated water into a nearby field. However, at the time of the inspection there still appeared to be a significant amount of accumulated water in close proximity to the roadside ditch along Noon Road.

XV. Receiving Water

According to Mr. Noteboom, the nearest surface waters to the main facility are drainage ditches that connect to Scott Ditch

The nearest surface water to the Hannegan Road location is the Nooksack River.

XVI. Sample Collection and Analyses

I did not collect any samples at the time of this inspection.

XVII. Closing Conference

The closing conference was held on March 29, 2010. The individuals present were the inspection team members (Joe Roberto, Dustan Bott, and Kurt Niemeyer) and Dan Noteboom.

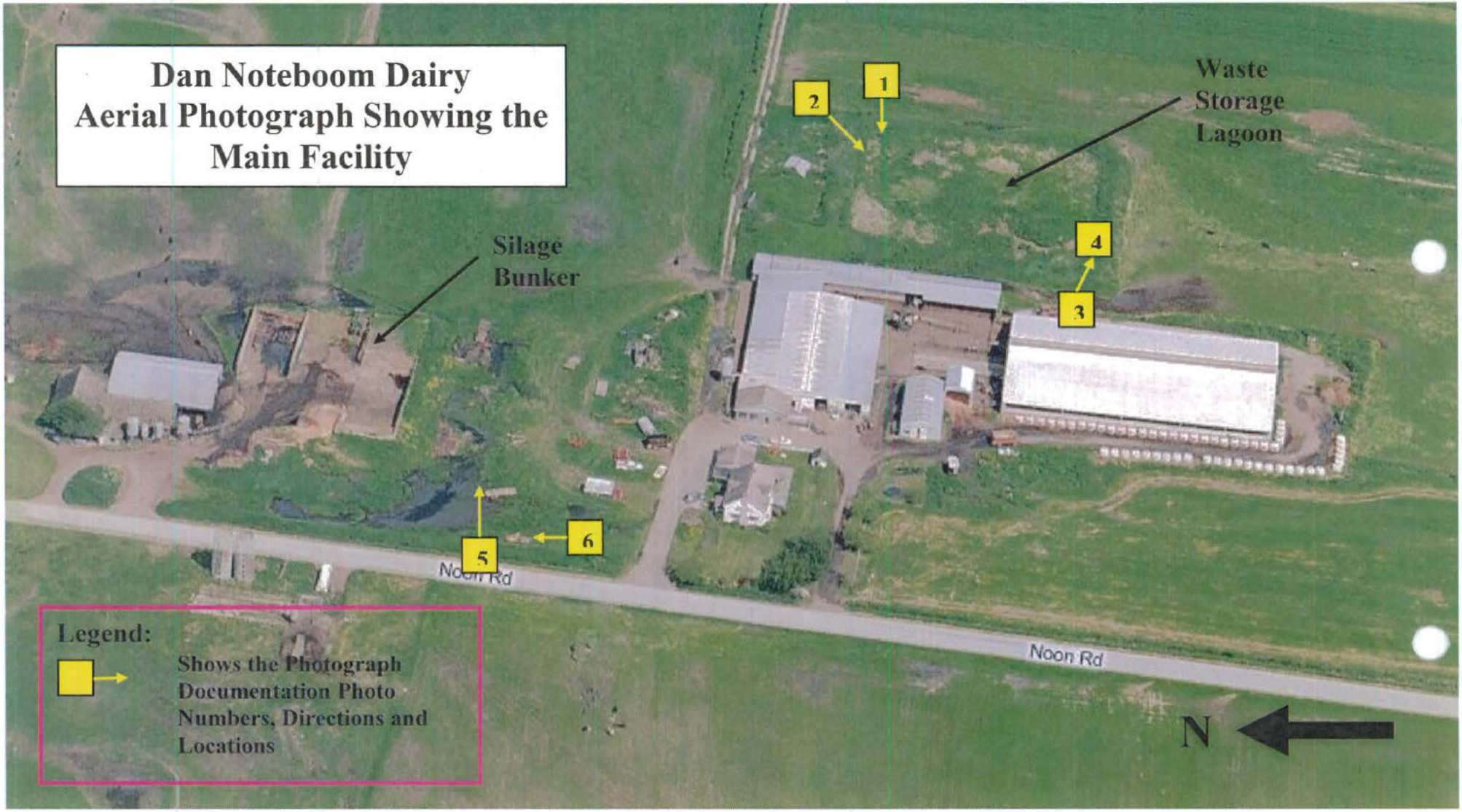
Report Completion Date: 04/14/10

Lead Inspector Signature: Joe D. Rob

ATTACHMENT A

Aerial Photograph Showing the Main Facility

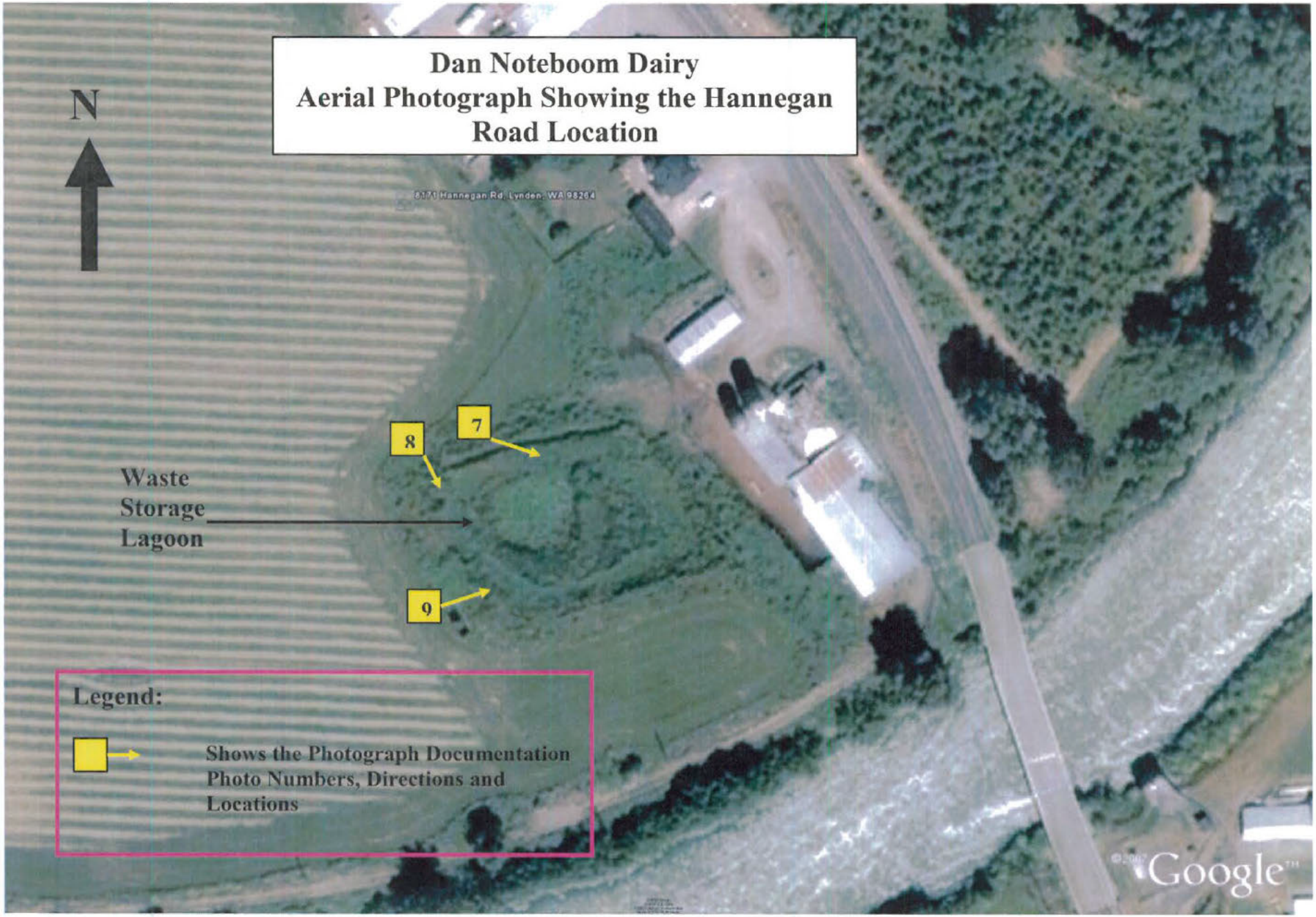
Dan Noteboom Dairy


Dan Noteboom Dairy
Aerial Photograph Showing the
Main Facility
Waste
Storage
Lagoon
Silage
Bunker
1
2
3
4
5
6
Noon Rd
Noon Rd
Legend:
Shows the Photograph
Documentation Photo
Numbers, Directions and
Locations
N

ATTACHMENT B

Aerial Photograph Showing the Hannegan Road Location

Dan Noteboom Dairy


Dan Noteboom Dairy
Aerial Photograph Showing the Hannegan Road Location
N
8171 Hannegan Rd, Lynden, WA 98264
7
8
9
Waste Storage Lagoon
Legend:
Shows the Photograph Documentation Photo Numbers, Directions and Locations
Google

ATTACHMENT C

Photograph Documentation

(All photographs were taken by Dustan Bott on March 29, 2010)

Dan Noteboom Dairy

Photo #1: Westerly view showing the northeast corner of the (main facility) waste storage lagoon in the foreground. Note the vegetation on the lagoon surface. The only area within the lagoon without solids on the surface is the northeast corner which is where waste is pumped from the lagoon.

Photo #2: Southwesterly view showing the northeast corner of the (main facility) waste storage lagoon in the foreground. Note the vegetation on the lagoon surface. The only area within the lagoon without solids on the surface is the northeast corner which is where waste is pumped from the lagoon.

Photo #3: Easterly view showing the southwest corner of the (main facility) waste storage lagoon. Note that I am standing on the lagoon wall. Note the amount of vegetation floating on the lagoon surface. Also note that there is less than six inches of freeboard in this portion of the lagoon.

Photo #4: Close-up near the southwest corner of the (main facility) waste storage lagoon. I am standing on the lagoon wall. Note that the water level in this portion of the lagoon is near the top of the lagoon wall.

Photo #5: Easterly view showing the silage bunker in the background and ponded water in the foreground. The ponded water likely includes precipitation as well as silage leachate.

Photo #6: Northerly view showing Noon Road on the left and the ponded water near the silage bunker on the right. Note the proximity of the ponded water to the roadside ditch along Noon Road.

Photo #7: Southerly view showing the waste storage lagoon at the Hannegan Road location. Note the vegetation in this lagoon.

Photo #8: Another view of the waste storage lagoon at the Hannegan Road location. Note the vegetation in this lagoon.

Photo #9: Close-up of some of the vegetation in the waste storage lagoon at the Hannegan Road location.

Photo #10: View of the truck used to land apply wastewater as well as transfer wastewater between the waste storage lagoon at the main facility and the waste storage lagoon at the Hannegan Road location.